

# Searching PAJ

[MENU](#)[NEWS](#)[HELP](#)**Search Results : 5**[Index Indication](#)[Clear](#)**Text Search**

If you want to conduct a Number Search, please click on  
the button to the right.

[Number Search](#)**Applicant, Title of invention, Abstract — e.g. computer semiconductor**

If you use the AND/OR operation, please leave a **SPACE** between keywords.

One letter word or **Stopwords** are not searchable.

[AND](#)**AND**[AND](#)**AND**[AND](#)**AND****Date of publication of application — e.g. 19980401 - 19980405** - **AND****IPC — e.g. D01B7/04 A01C11/02**

If you use the OR operation, please leave a **SPACE** between keywords.

[Search](#)[Stored data](#)

Copyright (C); 1998,2003 Japan Patent Office

# Searching PAJ

[MENU](#)[NEWS](#)[HELP](#)**Search Results : 38**[Index Indication](#)[Clear](#)**Text Search**

If you want to conduct a Number Search, please click on  
the button to the right.

[Number Search](#)**Applicant, Title of invention, Abstract — e.g. computer semiconductor**

If you use the AND/OR operation, please leave a **SPACE** between keywords.

One letter word or **Stopwords** are not searchable.

[AND](#)**AND**[AND](#)**AND**[AND](#)**AND****Date of publication of application — e.g. 19980401 - 19980405** - **AND****IPC — e.g. D01B7/04 A01C11/02**

If you use the OR operation, please leave a **SPACE** between keywords.

[Search](#)[Stored data](#)

Copyright (C); 1998,2003 Japan Patent Office

## Searching PAJ

[MENU](#)[NEWS](#)[HELP](#)**Search Results : 46**[Index Indication](#)[Clear](#)**Text Search**

If you want to conduct a Number Search, please click on  
the button to the right.

[Number Search](#)**Applicant, Title of invention, Abstract — e.g. computer semiconductor**

If you use the AND/OR operation, please leave a **SPACE** between keywords.

One letter word or **Stopwords** are not searchable.

[AND](#)**AND**[AND](#)**AND**[AND](#)**AND****Date of publication of application — e.g. 19980401 - 19980405** - **AND****IPC — e.g. D01B7/04 A01C11/02**

If you use the OR operation, please leave a **SPACE** between keywords.

[Search](#)[Stored data](#)

Copyright (C); 1998,2003 Japan Patent Office

# Searching PAJ

[MENU](#)[NEWS](#)[HELP](#)**Search Results : 0**[Clear](#)**Text Search**

If you want to conduct a Number Search, please click on  
the button to the right.

[Number Search](#)**Applicant, Title of invention, Abstract — e.g. computer semiconductor**

If you use the AND/OR operation, please leave a **SPACE** between keywords.

One letter word or **Stopwords** are not searchable.

[AND](#)**AND**[AND](#)**AND**[AND](#)**AND****Date of publication of application — e.g. 19980401 - 19980405** - **AND****IPC — e.g. D01B7/04 A01C11/02**

If you use the OR operation, please leave a **SPACE** between keywords.

[Search](#)[Stored data](#)

Copyright (C); 1998,2003 Japan Patent Office

# Searching PAJ

[MENU](#)[NEWS](#)[HELP](#)**Search Results : 1**[Index Indication](#)[Clear](#)**Text Search**

If you want to conduct a Number Search, please click on  
the button to the right.

[Number Search](#)**Applicant, Title of invention, Abstract — e.g. computer semiconductor**

If you use the AND/OR operation, please leave a **SPACE** between keywords.

One letter word or **Stopwords** are not searchable.

[AND](#)

AND

[AND](#)

AND

[AND](#)

AND

**Date of publication of application — e.g. 19980401 - 19980405** - 

AND

**IPC — e.g. D01B7/04 A01C11/02**

If you use the OR operation, please leave a **SPACE** between keywords.

[Search](#)[Stored data](#)

Copyright (C); 1998,2003 Japan Patent Office



Canadian Intellectual  
Property Office

Office de la propriété  
intellectuelle du Canada

Canada

Français  
Strategis

Contact Us  
Site Map

Help  
What's New

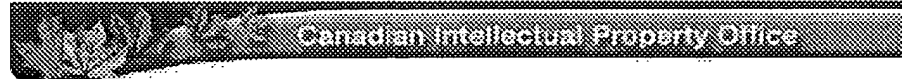
Search  
About Us

Canada Site  
Registration

strategis.gc.ca



Strategis Index: [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)



[CIPO Home](#)

[Patents Main Page](#)

**PATENTS  
DATABASE**

**Search Options**

[Basic](#)

[Number](#)

[Boolean](#)

[Advanced](#)

**Help**

[Content](#)

[Searching](#)

[Search Language](#)

[FAQ](#)

[Disclaimer](#)

[Foreign Patent Links](#)

[Decisions of the  
Commissioner of  
Patents](#)

[Trade-marks  
Database](#)

[Copyrights Database](#)

## Canadian Patents Database

### Search Results 05/24/2005 - 16:06:33

Query :  
( ( (piezoelectric <and> cantilever <ar

Query: ( ( (piezoelectric <and> cantilever <and> (ridge <or> pedestal)) )  
<in> claims )

**Sorry, no patents were found matching your  
query**

Please modify your query and try again. [Example queries](#) and [search  
language help](#) are available.

Last Modified: 2002-12-31



[Important Notices](#)



Canadian Intellectual  
Property Office

Office de la propriété  
intellectuelle du Canada

Canada

Français  
Strategis

Contact Us  
Site Map

Help  
What's New

Search  
About Us

Canada Site  
Registration

strategis.gc.ca



Strategis Index: [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)



[CIPO Home](#)

[Patents Main Page](#)

[PATENTS  
DATABASE](#)

[Search Options](#)

[Basic](#)

[Number](#)

[Boolean](#)

[Advanced](#)

[Help](#)

[Content](#)

[Searching](#)

[Search Language](#)

[FAQ](#)

[Disclaimer](#)

[Foreign Patent Links](#)

[Decisions of the  
Commissioner of  
Patents](#)

[Trade-marks  
Database](#)

[Copyrights Database](#)

## Canadian Patents Database

### Advanced Search

Enter search text in the following fields. View [example queries](#)

For information concerning current coverage, see the [What's New](#) area.

Date Search

Any Text Field:

Title:

Abstract:

Claims:

Inventor:

Inventor Country:

Owner:

Applicant:

IPC:

CPC:

PCT Filing Number:

Intl Publication Number:

Only with License Available: ☐

**WITHIN**

☒ All documents ☐ PCT ☐ Non-PCT

**AND**

☒ In both languages |

For documents only issued on or after  
Aug.15, 1978

☐ English ☐ French

**AND**

Date Search: (Optional)

To restrict your search to a specific date range, you **must** select a date

field below.

Find patents with

between    and

Results per lists

Last Modified: 2004-01-08



[Important Notices](#)



[Search Summary]

**Results of searching in PCT (Full Text) for:**

**piezoelectric and cantilever and (ridge or pedestal): 87 records**

*Showing records 1 to 25 of 87 :*

Next 25 records	Start At	
Refine Search	piezoelectric and cantilever and (ridge or pedestal)	

**Title**

1. (WO 2005/043159) WATER-SOLUBLE COMPOUND
2. (WO 2005/031165) MICRO-PUMP
3. (WO 2005/022606) THERMOACOUSTIC *PIEZOELECTRIC* GENERATOR
4. (WO 2005/017937) SENSOR ARRAY FOR MEASURING PLASMA CHARACTERISTICS IN PLASMA PROCESSING ENVIROMENTS
5. (WO 2005/010125) DRUM PEDAL STABILIZER
6. (WO 2005/001903) PULSE DRIVE OF RESONANT MEMS DEVICES
7. (WO 2004/113895) HIGH THROUGHPUT MICROCANTILEVER DETECTOR
8. (WO 2004/099826) POLISHED POLYIMIDE SUBSTRATE
9. (WO 2004/095593) LED LIGHT ASSEMBLY WITH ACTIVE COOLING
10. (WO 2004/052075) IMPROVED EFFICIENCY AUDIBLE ALARM
11. (WO 2004/052046) THIN MEMBRANE TRANSDUCER
12. (WO 2004/044552) METHODS AND APPARATUS FOR INK DELIVERY TO NANOLITHOGRAPHIC PROBE SYSTEMS
13. (WO 2002/051549) HIGH SPEED LIQUID DEPOSITION APPARATUS FOR MICROARRAY FABRICATION  
[Repub: 13.05.2004]
14. (WO 2004/029625) DETECTING MOLECULAR BINDING BY MONITORING FEEDBACK CONTROLLED *CANTILEVER* DEFLECTIONS
15. (WO 2004/003384) *PIEZOELECTRIC* MICROPUMP WITH DIAPHRAGM AND VALVES
16. (WO 03/093165) THERMAL MICRO-ACTUATOR BASED ON SELECTIVE ELECTRICAL EXCITATION
17. (WO 03/081195) PRESSURE MONITOR INCORPORATING SAW DEVICE
18. (WO 03/066515) MICROENGINEERED ELECTRICAL CONNECTORS
19. (WO 03/062742) SCANNING PROBE FOR DATA STORAGE AND MICROSCOPY
20. (WO 03/050852) COMPLEX MICRODEVICES AND APPPARATUS AND METHODS FOR FABRICATING SUCH DEVICES
21. (WO 03/046144) MICROSCALE IMMOBILIZATION OF MOLECULES USING A HYDROGEL AND METHODS OF USE THEREOF
22. (WO 03/043051) MEASUREMENT DEVICE FOR ELECTRON MICROSCOPE
23. (WO 03/038919) *PIEZOELECTRIC* DEVICES
24. (WO 02/025630) MICROFABRICATED ULTRASOUND ARRAY FOR USE AS RESONANT SENSORS  
[Repub: 03.04.2003]

*Searching PCT (Full Text)...*

[Search Summary]

**Results of searching in PCT (Full Text) for:**

**piezoelectric and cantilever and ( conductive or conducting ) near ( resin or adhesive ): 0 records**

**Refine Search**

piezoelectric and cantilever and (conductive or condu

No records matching your query found in PCT (Full Text)

**Search Summary**

**piezoelectric NEAR resin:** 16 occurrences in 11 records.

**cantilever NEAR resin:** 2 occurrences in 1 record.

**(piezoelectric NEAR resin AND cantilever NEAR resin):** 0 records.

**conductive NEAR resin:** 5051 occurrences in 660 records.

**conducting NEAR resin:** 304 occurrences in 99 records.

**(conductive NEAR resin OR conducting NEAR resin):** 749 records.

**((piezoelectric NEAR resin AND cantilever NEAR resin) AND (conductive NEAR resin OR conducting NEAR resin)):** 0 records.

**piezoelectric NEAR adhesive:** 79 occurrences in 35 records.

**cantilever NEAR adhesive:** 14 occurrences in 12 records.

**(piezoelectric NEAR adhesive AND cantilever NEAR adhesive):** 0 records.

**conductive NEAR adhesive:** 10316 occurrences in 2158 records.

**conducting NEAR adhesive:** 575 occurrences in 265 records.

**(conductive NEAR adhesive OR conducting NEAR adhesive):** 2312 records.

**((piezoelectric NEAR adhesive AND cantilever NEAR adhesive) AND (conductive NEAR adhesive OR conducting NEAR adhesive)):** 0 records.

**((((piezoelectric NEAR resin AND cantilever NEAR resin) AND (conductive NEAR resin OR conducting NEAR resin)) OR ((piezoelectric NEAR adhesive AND cantilever NEAR adhesive) AND (conductive NEAR adhesive OR conducting NEAR adhesive)))):** 0 records.

Search Time: 4.34 seconds.



**resonator or oscillator** in the title AND **cantilever** in the title or abstract  
(Results are sorted by date of upload in database)

- <http://v3.espacenet.com/results?sf=a&FIRST=1&CY=ep&LG=en&DB=EPODOC&TI=reso...> 5/24/05

**RESULT LIST**

7 results found in the Worldwide database for:  
**resonator cantilever pedestal** in the title or abstract  
(Results are sorted by date of upload in database)

- |          |   |   |
|----------|---|---|
| <b>1</b> | <b>PIEZO-OSCILLATOR</b><br>Inventor: SAITO HIROAKI; ISHITA AKINORI<br>EC:<br>Publication info: <b>JP2000134058</b> - 2000-05-12 | Applicant: TOYO COMMUNICATION EQUIP<br>IPC: H03H9/02; H03B5/32      |
| <b>2</b> | <b>ALPO4 RESONATOR</b><br>Inventor: KAWASHIMA HIROFUMI<br>EC:<br>Publication info: <b>JP61073047</b> - 1986-04-15               | Applicant: SEIKO ELECTRONIC COMPONENTS<br>IPC: G01L21/22; H03H9/21  |
| <b>3</b> | <b>CRYSTAL RESONATOR</b><br>Inventor: KAWASHIMA HIROFUMI<br>EC:<br>Publication info: <b>JP61073046</b> - 1986-04-15             | Applicant: SEIKO ELECTRONIC COMPONENTS<br>IPC: G01L21/22; H03H9/215 |
| <b>4</b> | <b>LITHIUM TANTALATE RESONATOR</b><br>Inventor: KAWASHIMA HIROFUMI<br>EC:<br>Publication info: <b>JP61073045</b> - 1986-04-15   | Applicant: SEIKO ELECTRONIC COMPONENTS<br>IPC: G01L21/22; H03H9/21  |
| <b>5</b> | <b>LITHIUM NIOBATE RESONATOR</b><br>Inventor: KAWASHIMA HIROFUMI<br>EC:<br>Publication info: <b>JP61073044</b> - 1986-04-15     | Applicant: SEIKO ELECTRONIC COMPONENTS<br>IPC: G01L21/22; H03H9/21  |
| <b>6</b> | <b>LITHIUM NIOBATE RESONATOR</b><br>Inventor: KAWASHIMA HIROFUMI<br>EC:<br>Publication info: <b>JP61057827</b> - 1986-03-24     | Applicant: SEIKO ELECTRONIC COMPONENTS<br>IPC: G01L21/22; H03H9/19  |
| <b>7</b> | <b>OSCILLATOR</b><br>Inventor:<br>EC: H03H9/10; H03H9/21; (+1)<br>Publication info: <b>GB1465970</b> - 1977-03-02               | Applicant: SEIKO INSTR & ELECTRONICS<br>IPC: H03H9/10; H03H9/20     |

---

Data supplied from the **esp@cenet** database - Worldwide

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	4	"1465970"	EPO; DERWEN T
2	IS&R	L2	6	("1465970").PN.	USPAT; USOCR; EPO; JPO; DERWEN T
3	BRS	L3	56	piezoelectric same cantilever and pedestal	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
4	BRS	L4	79	piezoelectric same cantilever and ridge	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
5	BRS	L5	0	terayama-tosho.in.	USPAT
6	BRS	L6	4	terayama-toshio.in.	USPAT
7	BRS	L7	1	terayama-toshio.in.	USOCR